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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION		
10/524,264	02/11/2005	Marco Daher	P70223US0	4112	
	7590 08/26/201 OLMAN PLLC	EXAMINER			
400 SEVENTH	STREET N.W.	WIECZOREK, MICHAEL P			
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			1712		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Symmothy		Application No.		Applicant(s)				
		10/524,264		DAHER ET AL.				
Office Action Summary			Examiner		Art Unit			
			Michael Wieczorek		1712			
Period fo	The MAILING DATE of this communica or Reply	tion appe	ears on the cover sheet w	vith the co	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)[\	Responsive to communication(s) filed of	on 14 lur	na 2010					
•	Responsive to communication(s) filed on <u>14 June 2010</u> . This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
<u>ا ا</u> ر	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
,—	4) Claim(s) <u>1,2,5-17,20,21 and 23-26</u> is/are pending in the application. 4a) Of the above claim(s) <u>2 and 15</u> is/are withdrawn from consideration.							
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· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are allowed.	lalara ra	looted					
· -	Claim(s) <u>1.5-14,16,17,20,21 and 23-26</u>	is/are re	jectea.					
7)□	Claim(s) is/are objected to.	n and/ar	alastian raquirament					
اـــا(٥	Claim(s) are subject to restriction	n and/or	election requirement.					
Applicati	on Papers							
9)	The specification is objected to by the E	xaminer.						
10)	The drawing(s) filed on is/are: a)) <mark>∏</mark> acce _l	pted or b) 🔲 objected to	by the E	xaminer.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the	e correctio	on is required if the drawing	g(s) is obje	ected to. See 37 CI	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			-					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) The Notice of Information Disclosure Statement(s) (PTO/SB/08) The Notice of Information Disclosure Statement(s) (PTO/SB/08) The Notice of Information Disclosure Statement(s) (PTO/SB/08)								
Paper No(s)/Mail Date 6) Other:								

DETAILED ACTION

Status of the Claims

By amendment filed June 14, 2010, claims 5, 23 and 24 have been amended and claims 25 and 26 are new. Claims 2 and 15 have been previously withdrawn from consideration as being non-elected species. Claims 1, 2, 5 through 17, 20, 21 and 23 through 26 are currently pending.

Response to Arguments

- 1. Applicant's arguments filed June 14, 2010 have been fully considered but they are not persuasive.
- 2. Applicant argues because Nasli-Bakir teaches a metering pump between the third reservoir (tanks 16 and 18) and the second reservoir (spreader 44) and that Nasli-Bakir does not teach that the third reservoir is pressurized, Nasli-Bakir does not meet the claimed limitation of the third reservoir being configured to supply the glue to the second glue reservoir in a pressurized state, the glue in the third glue reservoir being under a higher pressure than the glue in the second glue reservoir. These arguments are not persuasive because the third reservoir of Nasli-Bakir is configured to delivery glue to the second reservoir in a pressurized state in that the third reservoir (tanks 16 and 18) are connected to the metering pumps 30 and 32 which due deliver the glue in a pressurized state to the second reservoir (spreader 44) (Figure 1). Thus the third reservoir of Nasli-Bakir is configured in the sense that it is connected to metering pumps. Furthermore, the apparatus of Nasli-Bakir is capable of having the glue in the third reservoir is at a higher pressure than the glue in the second reservoir. As applicant as stated Nasli-Bakir teaches

Application/Control Number: 10/524,264

Art Unit: 1712

that when a low level of material in tanks 16 and 18 is read pumps 12 and 14 supply glue to the third reservoir of tanks 16 and 18 (Page 2 Paragraph 0028), thus glue is being delivered to the third reservoir in a pressurized state. Glue remaining in the second reservoir/spreader pipe, which is open to atmospheric pressure, would be stagnant, thus the third reservoir would contain glue at a higher pressure than the glue in the second reservoir. Thus Nasli-Bakir is capable of performing the claimed limitations.

Page 3

- 3. Applicant has argued that in there specification they provide an apparatus with no pump between the third glue reservoir and the second glue reservoir and that the third glue reservoir is in a pressurized state. The limitation of third reservoir being configured to supply the glue to the second glue reservoir in a pressurized state, the glue in the third glue reservoir being under a higher pressure than the glue in the second glue reservoir does not limit an apparatus to the configuration disclosed within the specification. The claims only state that the glue is in a pressurized state and not the reservoirs themselves. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Furthermore, as will be discussed further below in the Conclusion section, previously presented prior art reference Kunkel et al (U.S. Patent # 4,420,510) in the Office Action dated October 28, 2009, which teaches an adhesive delivering apparatus wherein the apparatus comprises an intermediate third reservoir in the form of a foamer 37, which is capable of being a pressurized glue reservoir.
- 4. Furthermore, new claims 25 and 26 are not persuasive because they are still unobvious over the previously presented prior art as is discussed below in the claims 12 and 13 rejections.

Application/Control Number: 10/524,264 Page 4

Art Unit: 1712

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 1, 5-9, 20-21, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nasli-Bakir et al (U.S. Patent Publication No. 2002/0015786) in view of Kubota (U.S. Patent # 5,350,600) and Boeck et al (U.S. Patent # 5,111,855).

Nasli-Bakir et al teaches an apparatus for applying a glue mixture (Abstract). The apparatus comprises at least one first glue reservoir from which glue is supplied in the form of storage tanks 4 and 6. The apparatus further comprises glue lines for transporting the supplied glue in the forms of feeding conduits 8 and 10. The apparatus further comprises a plurality of glue valves in the form of valves 24, 26, 40 and 42 that are capable of opening and closing individually so as to control the of the transported glue components. The apparatus comprises a second glue reservoir in the form of spreader pipe 44 that comprises glue outputs for dispensing glue which is coupled a mixer 38 which comprises the glue valves 40 and 42, thus the glue

outputs are allocated to the glue valves and the second reservoir 44 is in communication with at least two glue valves. The opening and closing of these valves define the glue profile in that when they are open glue flows into the mixer 38 then into the second reservoir 44 and onto the lamella 46 to coat the substrate thus producing a glue profile and when the valves are closed glue doesn't flow onto the substrate thus producing no glue profile. Furthermore the apparatus is comprised of a third glue reservoir configure as two glue subreservoirs in the form of day tanks 16 and 18 which as shown in Figure 1 are disposed downstream of the first glue reservoirs (4, 6) and upstream from the glue reservoir 44. Furthermore since the glue is pumped from the third glue reservoir (16, 18) to the second glue reservoir 44 by pumps 30 and 32 the reservoir is configured to supply the glue to the second glue reservoir in a pressurized state. (Figure 1 and Page 2 Paragraphs 0028-0030).

Though Nasli-Bakir et al teaches a second glue reservoir 44 it does not teach that the second glue reservoir as being configured as four glue subreservoirs each including therein a gas cushion.

Kubota teaches an apparatus for applying a viscous liquid such as adhesives (Abstract and Column 1 Lines 9-15). The taught apparatus comprises a main tank 22 and two sub-tanks 24 which are each connected to the main tank 22 and that the viscous liquid is dispensed from the two sub-tanks. Kubota teaches that the advantage of having two sub-tanks is that two objects can be coated at the same time. (Column 4 Line 64 through Column 5 Line 12 and Figure 7). Thus Kubota teaches having multiple sub-tanks or subreservoirs that dispense a viscous liquid allows for multiple objects to be coated at the same time by the viscous liquid.

At the time the present invention was made it would have been obvious to one having ordinary skill in the art to have configured the second glue reservoir to be four glue subreservoirs. Base on the teachings of Kubota it would have been obvious to one of ordinary skill in the art to configure the second glue reservoir or spreader pipe 44 of Nasli-Bakir et al to be four sub-spreader pipes or subreservoirs so that four different lamella 46 can be coated with glue at the same time.

In the case of the gas cushion limitation, Boeck et al teaches an invention related to an apparatus comprising reservoirs holding liquid substances and valves which control the release of the liquid substance from the reservoirs (Abstract). Boeck et al teaches that the reservoirs 1 of the taught apparatus have in them gas cushions which provide constant pressure conditions at the valves or dosing valves 4 connected to the reservoirs 1 in order to provide a reliable control of the quantity of liquid released from the reservoirs (Column 1 Lines 56-61, Column 2 Lines 55-66 and Figure 1).

At the time the present invention was made it would have been obvious to one of ordinary skill in the art to include a gas cushion in the second glue reservoirs. Based on the teachings of Boeck et al it would have been obvious to one having ordinary skill in the art to have included a gas cushion in the second glue reservoirs 44 of Nasli-Bakir et al in view of Kubota in order to maintain a constant pressure at the outlets of the second glue reservoirs 44 so as to be able to control the amount of glue released from the second glue reservoirs 44.

As for the limitation that the glue in the third glue reservoir is at a higher pressure than the glue in the second glue reservoir, as was discussed above, the apparatus taught by Nasli-Bakir et al comprises pumps and valves upstream and downstream of the third glue reservoirs

(16, 18), thus the third glue reservoirs is capable of having a higher pressure then the second glue reservoir in that the pumps and valves control the flow of glue in and out of the third glue reservoir and thus control the pressure in that reservoir.

As for claim 5, the second glue reservoir 44 and the third glue reservoir (16, 18) are connected by a mixer 38 which comprises valves 40 and 42 (Figure 1 and Page 2 Paragraph 0028). The mixer 38 is considered to be a pressure regulator because it controls the flow rate of glue into the second glue reservoir 44 and thus controls or regulates the pressure within that reservoir.

As for claim 6, as was discussed above in the claim 5 rejection the pressure regulator or mixer 38 comprises valves 40 and 42 which are configured to start and stop the flow of the glue components into the mixer 38 and thus into the second glue reservoir 44 (Page 2 Paragraph 0028 and Figure 1 of Nasli-Bakir et al). Since the valves control the flow of the glue components into the mixer and thus the second glue reservoir they are thus configured to open and close the connection between second glue reservoir and the third glue reservoir. Neither Nasli-Bakir et al nor any of the other two references teach that the valves have an opening time and a closing time each being less than 5 ms but based on the teachings of Nasli-Bakir et al it would be obvious for then to do so.

As was discussed above the valves 40 and 42 control the starting and stopping of glue components flowing into the mixer 38 and then into the second glue reservoir 44. Thus the valves determine the time it takes for the coating operation to start (by the valves opening to let the glue components into the mixer 38) and the time it takes of the coating operation to stop (by the valves closing to thus stop the flow of the glue components). Thus it would be obvious to one

of ordinary skill in the art that the faster the valves 40 and 42 open and close the faster the coating operation of the apparatus can startup or shutdown. Thus it would be obvious to one of ordinary skill in the art to have valves that can open and close in times less than 5 ms in order to minimize the delay in starting and stopping the coating operation.

At the time the present invention was made it would be obvious to one of ordinary skill in the art that the valves included in the pressure regulator to be able to open and close in a time of less than 5 ms. The quicker the valves 40 and 42 open and close the quicker the coating operation can start and stop.

As for claim 7, as was discussed previously and as show in Figure 1 of Nasli-Bakir et al, provided between the first glue reservoir (4, 6) and the third glue reservoir (16, 18) are pumps 12 and 14. Since the pumps pump glue components from the first glue reservoir (4, 6) to the third glue reservoir (16, 18) the pumps are configured to deliver the glue in a pressurized state.

As for claim 8, Nasli-Bakir et al does not teach that the third glue reservoir (16, 18) communicate with a pressure reservoir but as was discussed above in the claim 1 rejection based on the teachings of Boeck et al it would have been obvious to one of ordinary skill in the art to provide a gas cushion in a reservoir in order to provide a constant pressure at the outlets of the reservoirs. Boeck et al further teaches that the gas cushion in the reservoir 1 is provided by being in communication with a inert gas container 5 (Column 2 Lines 55-66 and Figure 1), this inert gas container 5 being a pressure reservoir in that is contains pressurized inert gas.

At the time the present invention was made it would have been obvious to one having ordinary skill in the art to have the third glue reservoirs communicate with a pressure reservoirs.

As taught by Boeck et al by having the third reservoirs of Nasli-Bakir et al communicate with a

pressure reservoir in the form of an inert gas canister as gas cushion can be formed in the third glue reservoirs and thus allow for a constant pressure to exist at the outlets of the third glue reservoir.

As for claim 9, since glue flows into and out of the third glue reservoir (16, 18) and fluid flows from an are of high pressure (i.e. the entrance to the third glue reservoir) to an area of low pressure (i.e. the exit of the third glue reservoir) the third glue reservoir (16, 18) thus includes a plurality of glue pressure levels connected in series.

In the case of claim 20, it is rejected for the same reasons discussed in the rejection of claims 1 and 7.

As for claim 21, it is rejected for the same reasons as were discussed in the claim 5 rejections.

In the case of the claim 23, it is rejected for the same reasons discussed above in the rejection of claim 1 and in the Response to Arguments section wherein the glue in the third reservoir can have a higher pressure than the glue in the second reservoir. Furthermore, as was discussed above in the claim 5 rejection, the apparatus of Nasli-Bakir et al in view of Kubota and Boeck et al comprises a pressure regulator disposed in the glue line between the second and third glue reservoirs.

As for claim 24, as was discussed in the claim 5 rejection, the pressure regulator/mixer 38 controls the flow of material from the third reservoir to the second reservoir and thus it controls the pressure of the material as it travels between the two reservoirs thus allowing the pressure of glue from the third glue reservoir be reduced to the pressure of the glue in the second glue reservoir.

Application/Control Number: 10/524,264 Page 10

Art Unit: 1712

8. Claims 10-11, 14 and 16 rejected under 35 U.S.C. 103(a) as being unpatentable over Nasli-Bakir et al in view of Kubota and Boeck et al as applied to claim 1 above, and further in view of Kunkel et al (U.S. Patent # 4,420,510).

The teachings of Nasli-Bakir et al in view of Kubota and Boeck et al as they apply to claim 1 have been discussed previously.

In the case of claims 10 and 11, none of the references teach that the second glue reservoir is in communication with at least one depressurization valve and that this valve can depressurize the second glue reservoir to atmospheric pressure.

Kunkel et al teaches and apparatus for applying adhesive to a substrate (Abstract).

Kunkel et al teaches that the apparatus comprises a depressurization valve in the form of slide valve 60 which is in communication with the extrusion head 44 (Column 6 Lines 41-46). This extrusion head 44 being analogous to the spreader pipe or second glue reservoir 44 of Nasli-Bakir et al. This slide valve controls the communication of glue reservoirs or cannels 102 in the extrusion head 44 with the extrusion nozzles 46 which are open to the atmosphere (Column 7 Lines 35-57 and Figure 4), thus the slide valve 60 controls the flow of glue out of the system and onto a substrate. Furthermore, the slide valve 60 can be configured by opening and allowing the channels 102 to connect with the extrusion nozzles 46 and thus allow the channels 102 to depressurize to atmospheric pressure.

At the time the present invention was made it would have been obvious to one having ordinary skill in the art to have a depressurization valve in communication with the second glue valve. It would have been obvious to add the slide valve 60 configuration of Kunkel et al to the

second glue reservoir or spreader pipe 44 of Nasli-Bakir et al in view of Kubota and Boeck et al so as to control the flow of glue out of the spreader pipe 44. Furthermore, since the slide valve controls the flow of glue to the outlets of the spreader pipe 44 and the outlets being open to the atmosphere the slide valve is capable of acting as a depressurization valve which can depressurize the second glue reservoir to atmospheric pressure by opening up the connection to the outlets which are open to the atmosphere.

As for claim 14, none of the references teach that second or third glue reservoirs have pressure meters provided.

Kunkel et al teaches that the taught apparatus comprises a pressure meters in the form of pressure sensor 42 provided with the extrusion head 44 (Column 6 Lines 26-30, Figure 2). This pressure sensor 42 allow for the measuring of the adhesive entering the extrusion head 44 by way of the valve 41 (Column 8 Lines 25-29 and Figure 2).

At the time the present invention was made it would have been obvious to provide a pressure meter with the second reservoir. As taught by Kunkel et al by providing a pressure meter with the second glue reservoir or spreader pipe 44 of Nasli-Bakir et al the pressure of the fluid entering the reservoir can be monitored and thus it can be determined if the glue has enough pressure to provide a desire flow rate out of the reservoir and onto a substrate to be coated.

As for claim 16, though the apparatus of Nasli-Bakir et al teaches a vessel or bucket 50 for collecting waste (Page 2 Paragraph 0030 and Figure 1) which is in communication with the second glue reservoir 44 it does not that the apparatus comprises either a glue discharge line or a cleaning medium discharge line.

The apparatus of Kunkel et al glue and cleaning medium discharge lines and a vessel which is in communication with the extrusion head 44 (Column 6 Lines 51-61, Figure 2). The glue and cleaning medium discharge lines allow for the flushing and cleaning of the extrusion head 44.

At the time the present invention was made it would have been obvious to include glue discharge and cleaning medium discharge lines. By adding glue and cleaning medium discharge lines to the apparatus of Nasli-Bakir et al in view of Kubota and Boeck et al the spreader pipe 44 can be properly flushed and cleaned as taught by Kunkel et al.

9. Claims 12, 13, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nasli-Bakir et al in view of Kubota and Boeck et al as applied to claim 1 above, and further in view of Kunkel et al and in further view of Boger et al (U.S. Patent # 4,687,137).

The teachings of Nasli-Bakir et al in view of Kubota and Boeck et al as they apply to claim 1 have been discussed previously. None of the references teach a glue discharge system configured to discharge the glue from the second glue reservoir without the glue passing through the glue valves which define a glue profile by opening and closing.

Kunkel et al does teaches that the apparatus comprises a glue discharge system which comprises a glue recirculation line in the form of line 69 and return line 72 which conveys the glue from extrusion head 44 to adhesive holding tank 10 (Column 6 Lines 62-68 and Figure 2). This allows for the recycling of glue left in the extrusion head 44.

At the time the present invention was made it would have been obvious to one having ordinary skill in the art to have ad glue discharge system in the form of a glue recirculation line

to convey glue from the second glue reservoir to the first glue reservoir. By incorporating the glue recirculation line and return line of the apparatus of Kunkel et al with the apparatus of Nasli-Bakir et al in view of Kubota and Boeck et al unused glue in the second reservoir or spreader pipe 44 can be returned to the first glue reservoir (4, 6) with out having to recollect any wasted glue from the bucket 50.

Though Kunkel et al provides teachings that allow for the glue to be discharged from the second glue reservoir directly into the first glue reservoir it does not however explicitly teach an embodiment capable of controlling the glue flow without flowing glue through a plurality of glue valves that define a glue profile by selectively opening and closing such at the valves 40 and 42 of Nasli-Bakir et al as described above in claim 1.

Boger et al teaches a adhesive dispensing system comprising a plurality of valves, referred to in the reference as dispensing valves 70, 72, 74 and 78 which can be used to form a glue profile based on the selective opening and closing of these valves (Column 1 Lines 6-10, Column 8 Lines 50-68, Column 9 Lines 1-11 and 51-62 and Figure 1 and 2).

Thus based on the teachings Boger et al it would have been obvious to one of ordinary skill in the art at the time the present invention was made that by placing valves at the outlets for the spreader pipe or second glue reservoir 44 of Nasli-Bakir et al a glue profile can be formed on a substrate based on the selective opening of each of these valve. It would be obvious to one of ordinary skill in the art that by selectively opening and closing the valves attached to each outlet a glue profiles can be formed by the taught apparatus pertaining to what type of substrate is to be coated.

Thus for the purposes of claims 12 and 13, Nasli-Bakir et al in view of Kubota and Boeck et al in further view of Kunkel et al in further view of Boger et al teach an apparatus comprising a plurality of glue valve allocated to glue outputs of a second glue reservoir which selectively open and close to define a glue profile (this taught by Boger et al) and further comprises a glue discharge system configured to discharge glue from the second glue reservoir to the first glue reservoir (this taught by Kunkel et al) without the glue passing through the glue valves taught by Boger et al.

In the case of claims 25 and 26 they are rejected for the same reasons discussed above in the claim 12 and 13 rejections.

10. Claim 17 rejected under 35 U.S.C. 103(a) as being unpatentable over Nasli-Bakir et al in view of Kubota and Boeck et al as applied to claim 1 above, and further in view of Cone et al (U.S. Patent # 3,965,860).

The teachings of Nasli-Bakir et al in view of Kubota and Boeck et al as they apply to claim 1 have been discussed previously. None of the references teach that the first glue reservoir includes a glue agitator.

Cone et al teaches an apparatus for applying glue to a substrate (Abstract, Column 1 Lines 10-15). The apparatus taught by Cone et al comprises a first reservoir in the form of a unit 14 which comprises an inline mixer meaning that the unit 14 has an agitator or mixing component that can mix the ingredients that form the glue (Column 2 Lines 63-68, Column 3 Lines 1-2 and Figure 2). Cone et al teaches that the advantage of having the first reservoir or unit

14 comprise a inline mixer is that glue is freshly mixed and has a constant age when it reaches both the foaming unit and the surface to be coated (Column 3 Lines 3-11).

At the time the present invention was made it would have been obvious to one of ordinary skill in the art to include within the first reservoir of Nasli-Bakir et al in view of Kubota and Boeck et al an agitator or inline mixer as taught by Cone et al so that the glue or adhesive that is applied to the substrate is fresher than glue that would have been sitting in a holding tank or storage tank. As taught by Cone et al, freshly mixing the glue within the first reservoir allows for consistent age and quality of the glue that is being foamed and applied to the substrate.

Conclusion

Claims 1, 5 through 14, 16 through 17, 20, 21, and 23 through 26 have been rejected.

Claims 2 and 15 have been withdrawn as being related to non-elected species. No claims were allowed.

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. As was discussed in the previous Office Action dated October 28, 2008, Kunkel et al teaches an apparatus capable of performing the limitations disclosed within the claims including comprising a third reservoir/foamer 37 which is capable of being a pressurized reservoir. Though Kunkel does not teach the claimed structural limitations that the third reservoir is configured as two sub-reservoirs and that the second reservoir (which in Kunkel was the upper body member 100/extruction head 44) is configured as four sub-reservoirs, the claims would still be obvious in view of Kunkel et al and the reference of Boeck and Kubota which, for the same reasons discussed above, would make it obvious to one of ordinary skill in the art to modify the

apparatus of Kunkel so that the second reservoir was configured as four sub-reservoirs comprising gas cushions. Furthermore, Henderson (U.S. Patent # 3,969,780), which teaches an apparatus which supplies a foamed composition to a moving substrate (Abstract) teaches that the apparatus comprises two foamers so that the coating operation can continue while one of the foamers was being cleaned (Column 4 Lines 34-45). Thus, based on the teachings of Henderson it would have been obvious to modify the apparatus of Kunkel et al so that it comprised two foamers/third sub-reservoirs and thus meeting the claimed limitations.

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Wieczorek whose telephone number is (571)270-5341. The examiner can normally be reached on Monday through Friday; 6:00 AM to 3:30 PM (EST).

Application/Control Number: 10/524,264 Page 17

Art Unit: 1712

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Cleveland can be reached on (571)272-1418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Wieczorek/ Examiner, Art Unit 1712

/Michael Cleveland/

Supervisory Patent Examiner, Art Unit 1712